

From: [Lisa Kusnierz](#)
To: EMakus@mt.gov
Subject: Fw: TSS SWMM output
Date: 02/10/2012 02:32 PM

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From: "Schmidt, Christian" <CSchmidt2@mt.gov>
To: Lisa Kusnierz/MO/R8/USEPA/US@EPA
Date: 01/30/2012 10:54 AM
Subject: TSS SWMM output

Lisa,

Based on the DMR data and a land use analysis performed by Erik Makus, I split the model results between the NURP benchmark (Permit benchmarks) and the literature EMC values. The land use to each point (DMR) was markedly different so I grouped the sub-basin based on the land use characteristics and then summed the model results.

Average Summer (lbs/summer)

	TSS	TN	TP
Bozeman Creek	54595.11	980.52	167.22
Bridger Creek	1740.84	27.88	5.69
East Gallatin	291095.65	4678.69	747.03

Average Annual (lbs/year)

	TSS	TN	TP
Bozeman Creek	702324.33	12978.07	2105.39
Bridger Creek	20990.65	335.85	68.85
East Gallatin	4561410.14	72793.00	11185.81

These table reflects the grouping. You can see that the numbers fall in between the two model runs with different EMC values.

Let me know if you have any questions. These are the loads that I will use to estimate the summer loading from the MS-4.

Based on our meeting last week, the WLA =0 but percent reductions will be requested based on BMP implementation.

Christian

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